

Listing of claims:

The following listing of claims replaces all previous claim listings in the application:

1. (Currently Amended). A method for transferring a set of files, the method comprising:
 - receiving, at a destination fileserver, metadata and a set of stub files associated with the set of files;
 - maintaining a list of repository nodes that are associated with each file in the set of files by updating a location component in ~~the~~ a fileserver, wherein said repository nodes store a replica of said file; and,
 - replacing each stub file with a full content of the file associated with the stub file;and
 - wherein said replacing includes
 - receiving a client request for a specified file in the set of files;
 - replacing the stub file associated with the specified file with a full content of the specified file.

2. (Currently Amended). The method of claim 1 wherein the metadata is received at a said destination fileserver from a repository node.

3. (Previously Presented). The method of claim 1 further comprising:
 - selecting said destination fileserver for receiving said metadata and said stub files.

4. (Previously Presented). The method of claim 1 further comprising:

selecting a share of data for receiving at said destination fileserver.

5. (Original). The method of claim 1 wherein the set of files is the set of files that have been accessed during a specified period and wherein replacing each stub file comprises recursively replacing the stub file associated with the file that was most-recently accessed until all the stub files in the set of files have been replaced.

6. (Original). The method of claim 5 wherein the specified period is a most-recent period.

7. (Original). The method of claim 1 wherein the location component is a location cache.

8. (Currently Amended). A data protection system comprising:
a fileserver having:

a file system operative to store client files;

a fileserver API operative to communicate with a repository;

a fileserver file transfer module in communication with the file system and operative to ~~receive~~ transfer files for the file system to and/or from at least one repository; and

a recovery service in communication with the fileserver API and with the file system and operative to transfer a set of files, the recovery service having:

a receiving component operative to receive metadata and stub files associated with the set of files at the fileserver;

a location updating component in communication with the receiving component and operative to maintain a list of repository nodes that are associated with each file in the set of files, wherein said repository nodes store a replica of said file; and

a stub file replacement component in communication with the receiving component and operative to replace each stub file with the full content of the file associated with the stub file.

9. (Previously Presented). The system of claim 8 further comprising
a filter driver operative to intercept input/output activity initiated by client file requests and to maintain a list of modified and created files since a prior backup;
a policy cache operative to store a protection policy associated with a share;
a mirror service in communication with the filter driver and with the policy cache, the mirror service operative to prepare modified and created files in a share to be written to a repository as specified in the protection policy associated with the share.

10. (Previously Presented). The system of claim 9 further comprising:
a location cache in communication with the mirror service and operative to indicate which repository should receive an updated version of an existing file; and
a location manager coupled to the location cache and operative to update the location cache when the system writes a new file to a specific repository node.

11. (Previously Presented). The system of claim 8 further comprising
a local repository having:

a local repository node API adapted for communicating with the fileserver API;
a local repository file transfer module in communication with the fileserver file transfer module and adapted for transferring files to the fileserver file transfer module; and
a data mover in communication with the local repository API and operative to supervise the replication of files from the local repository to the fileserver.

12. (Original). The system of claim 11 wherein the fileserver API is operative to communicate with a network and wherein the system further comprises:

a remote repository having:
a remote repository node API adapted for communicating with the network;
a remote repository file transfer module in communication with the local file transfer module and adapted for transferring files to the fileserver file transfer module; and
a data mover in communication with the remote repository API and operative to supervise the replication of files from the remote repository to the fileserver.

13. (Currently Amended). A method for storing data, the method comprising:

providing a fileserver having:
a file system operative to store client files;
a policy component operative to store a protection policy associated with a set of files;
a mirror service in communication with the policy ~~each~~component, the mirror service operative to prepare modified and created files in a set of files to be written to a repository as specified in the protection policy associated with the set of files;

a fileserver API coupled to the mirror service and operative to communicate with a repository;

a fileserver file transfer module in communication with the file system and operative to transfer files ~~from~~ for the file system to and/or from at least one repository; and,

a location updating component operative to maintain a list of repository nodes that are associated with each file in the set of files, wherein said repository nodes store a replica of said file;

determining a caching level as stored in the policy component; and

recursively, determining a utilization of the fileserver;

comparing the caching level against the utilization; and

creating a file migration candidate list when the utilization exceeds the caching level;

staging out one candidate file;

replacing the candidate file with a stub file; and

determining whether the utilization of the fileserver still exceeds the caching level.

14. (Previously Presented). The method of claim 13 wherein said determining if the utilization of the fileserver still exceeds the caching level further comprises staging out another candidate file on the candidate list and again determining if the utilization of the fileserver exceeds the caching level.

15. (Previously Submitted). The method of claim 1, wherein said replacing the stub file for the specified file is a higher priority task than replacing the stub files for non-requested files.